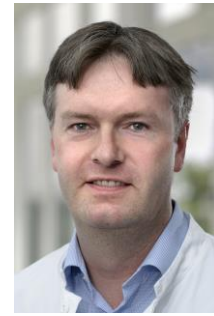


Lebenslauf

Prof. Dr. med.
Michael Linnebank



Geburtsdatum: 26. August 1974
Geburtsort: Soest, Westf.
Familienstand: Verheiratet, vier Kinder

Derzeitige Position: Chefarzt für Neurologie und Ärztlicher Direktor,
VAMED Klinik Hagen-Ambrock und
Leitender Neurologe, Helios Klinikum Niederberg

Bildungsweg

1981-1985 Grundschole Welver, Kreis Soest
1985-1994 Aldegrevor-Gymnasium Soest, Abitur
1994-1995 Zivildienst
1995-2001 Medizinstudium an der Westfälischen Wilhelms-Universität Münster
2001 Vorläufige Approbation
2002 Dissertation: Molekulargenetische Untersuchungen zur Prävalenz und zum genetischen Hintergrund der klassischen Homocystinurie (Prof. Dr. H.-G. Koch, Kinderklinik, Universitätsklinikum Münster)
2003 Approbation
2007 Facharzt für Neurologie
2009 Habilitation an der Universität Zürich, Medizinische Fakultät: Zur Bedeutung des Homocysteinestoffwechsels für zerebrovaskuläre, neuroonkologische und neurodegenerative Erkrankungen
2014 Ruf auf die Assistenzprofessur „Neurobiochemie und Motorik“, Universität Zürich, Antritt 01.02.2015
2016 Umhabilitation und APL-Professur, Lehrstuhl für Rehabilitationswissenschaften, Universität Witten/Herdecke, 01.04.2016
2017 Qualifikation zur fachgebundenen genetischen Beratung;

Berufliche Tätigkeit

2002-2007	Arzt im Praktikum/ Assistenzarzt und „Gerok“-Stipendiat, Klinik für Neurologie, Prof. Dr. Thomas Klockgether, und Klinik für Epileptologie, Prof. Dr. Christian E. Elger, Universitätsklinikum Bonn
2008-2009	Oberarzt, Klinik für Neurologie, Universitätsspital Zürich, Prof. Dr. Michael Weller
2010	Leitender Arzt, Klinik für Neurologie, Universitätsspital Zürich, Prof. Dr. Michael Weller
2014	Stellvertretender Klinikdirektor, Klinik für Neurologie, Universitätsspital Zürich, Prof. Dr. Michael Weller
2015	April: Chefarzt für Neurologie und Ärztlicher Direktor der Helios-Klinik Hagen-Ambrock, weiterhin Leitender Arzt der Klinik für Neurologie, Universitätsspital Zürich bis September 2016
2017	Peer der "Initiative Qualitätsmedizin"

Mitgliedschaften

Deutsche Gesellschaft für Neurologie, Ärztlicher Beirat der DMSG BV E.V., Rehabilitation Initiative and Technology Platform Zurich, Zentrum für Neurowissenschaften Zürich, ehem. Vorstand und wissenschaftlicher Beirat der Schweizerischen Multiple-Sklerose-Gesellschaft und Mitglied des International Medical and Scientific Board der Multiple Sclerosis International Federation, D.A.CH-Liga Homocystein, Steering-Committee der Fampridin-Phase-III-Studie „ENABLE“ (Biogen)

Gutachtertätigkeit für Institutionen

Deutsche Forschungsgemeinschaft, Schweizerischer Nationalfonds, Schweizerische Multiple-Sklerose-Gesellschaft, Parkinson UK, Health Research Board Ireland, Neurological Foundation of New Zealand

Gutachtertätigkeit für Zeitschriften

Addiction Biology, American Journal of Medical Genetics, Annals of Neurology, Archives of Medical Research, Asia Pacific Journal of Clinical Nutrition, Atherosclerosis, BMC Neurology, BMJ, Brain, Brain Research, Cancer Epidemiology Biomarkers and Prevention, Cell Biology and Toxicology, Central European Journal of Medicine, Clinical Chemistry and Laboratory Medicine, Clinical Nutrition, European Journal of Neurology, European Neuropsychopharmacology, Experimental Neurology, Human Mutation, International Journal for Vitamin and Nutrition Research, International Journal of Developmental Neuroscience, International Journal of Neuropsychopharmacology,

Journal of Inherited Metabolic Disorders, Journal of Medical Genetics, Journal of Neuroinflammation, Journal of Pediatric Neurology, Journal of Rheumatology, Neurobiology of Disease, Neuropediatrics, Neuroscience Letters, Neurotoxicology, Progress in Neuro-Psychopharmacology & Biological Psychiatry, Swiss Archives of Neurology, Swiss Medical Weekly, Thrombosis and Haemostasis, PlosOne, Deutsche Forschungsgemeinschaft, Molecular Nutrition and Food Research

Multizentrische Studien

Steering-Committee der Fampridin-Phase-III-Studie „ENABLE“ (Biogen Idec), verschiedene Register für krankheitsmodifizierende oder symptomatische Therapien der Multiplen Sklerose, lokaler Principle Investigator klinischer Studien, Investigator-initiierte Studien (s. Schriftenverzeichnis)

Auswahl: Vorträge, Organisation von Kongressen und Symposien

Deutsche Gesellschaft für Neurologie; Deutsche Gesellschaft für Psychiatrie und Psychotherapie, Psychosomatik und Nervenheilkunde; European Neurological Society; European Committee for Treatment and Research in Multiple Sclerosis; Jahrestagung der Schweizerischen Neurologen-Gesellschaft; Multiple-Sklerose-Symposium Zürich; State of the Art: Symposium der Schweizerischen Multiple-Sklerose-Gesellschaft; Deutsche Gesellschaft für Hämatologie und Medizinische Onkologie; International Multiple Sclerosis Cognition Society; Dreiländersymposium Multiple Sklerose; Deutsche Vereinte Gesellschaft für Klinische Chemie und Laboratoriumsmedizin; Arbeitsgemeinschaft für Pädiatrische Stoffwechselerkrankungen; Annual Fulda Meeting; Schweizer Gesellschaft für Allergologie und Immunologie; World Congress Homocysteine; Society for the Study of Inborn Errors of Metabolism; Jahrestagung der Deutschen Gesellschaft für Neurorehabilitation (DGNR) e. V. und der Deutschen Gesellschaft für Neurotraumatologie und Klinische Neurorehabilitation (DGNKN) e. V.

Schriftenverzeichnis

Originalarbeiten

Filli L, Sutter T, Easthope CS, Killeen T, Meyer C, Reuter K, Lőrincz L, Bolliger M, Weller M, Curt A, Straumann D, **Linnebank M**, Zörner B. Profiling walking dysfunction in multiple sclerosis: characterisation, classification and progression over time. *Sci Rep*. 2018 Mar 21;8(1):4984. doi: 10.1038/s41598-018-22676-0. PMID: 29563533.

Broicher SD, Filli L, Geisseler O, Germann N, Zörner B, Brugger P, **Linnebank M**. Positive effects of fampridine on cognition, fatigue and depression in patients with multiple sclerosis over 2 years. *J Neurol*. 2018 Feb 20. doi: 10.1007/s00415-018-8796-9. Epub ahead of print, PMID:29464379.

Filli L, Zörner B, Killeen T, **Linnebank M**. Author response: Monitoring long-term efficacy of fampridine in gait-impaired patients with multiple sclerosis. *Neurology*. 2017 Sep 12;89(11):1200. Epub 2017 Sep 11. doi: 10.1212/WNL.0000000000004379. PMID: 28894033.

Ineichen BV, Kapitza S, Bleul C, Good N, Plattner PS, Seyedsadr MS, Kaiser J, Schneider MP, Zörner B, Martin R, **Linnebank M**, Schwab ME. Nogo-A antibodies enhance axonal repair and remyelination in neuro-inflammatory and demyelinating pathology. *Acta Neuropathol*. 2017 Jun 23. doi: 10.1007/s00401-017-1745-3. PMID:28646336

Killeen T, Easthope CS, Demkó L, Filli L, Lőrincz L, **Linnebank M**, Curt A, Zörner B, Bolliger M. Minimum toe clearance: probing the neural control of locomotion. *Sci Rep*. 2017 May 15;7(1):1922. doi: 10.1038/s41598-017-02189-y. PMID: 28507300

Ineichen BV, Schneider MP, Hlavica M, Hagenbuch N, **Linnebank M**, Kessler TM. High EDSS can predict risk for upper urinary tract damage in patients with multiple sclerosis. *Mult Scler*. 2017 Mar 1:1352458517703801. doi: 10.1177/1352458517703801. PMID: 28367674

Killeen T, Easthope CS, Filli L, Lőrincz L, Schrafl-Altermatt M, Brugger P, **Linnebank M**, Curt A, Zörner B, Bolliger M. Increasing cognitive load attenuates right arm swing in healthy human walking. *R Soc Open Sci*. 2017 Jan 25;4(1):160993. doi: 10.1098/rsos.160993. eCollection 2017 Jan. PubMed PMID: 28280596; PubMed Central PMCID: PMC5319362

Semmler A, Frisch C, Bleul C, Smith D, Bigler L, Prost JC, Blom H, **Linnebank M**. Intrauterine valproate exposure is associated with alterations in hippocampal cell numbers and folate metabolism in a rat model of valproate teratogenicity. *Seizure*. 2017 Mar;46:7-12. doi: 10.1016/j.seizure.2017.01.003. Epub 2017 Jan 27. PubMed PMID: 28212902.

Nuvolone M, Schmid N, Miele G, Sorce S, Moos R, Schori C, Beerli RR, Bauer M, Saudan P, Dietmeier K, Lachmann I, **Linnebank M**, Martin R, Kallweit U, Kana V, Rushing EJ, Budka H, Aguzzi A. Cystatin F is a biomarker of prion pathogenesis in mice. *PLoS One*. 2017 Feb 8;12(2):e0171923. doi: 10.1371/journal.pone.0171923. eCollection 2017. PubMed PMID: 28178353; PubMed Central PMCID: PMC5298286.

Filli L, Zörner B, Kapitza S, Reuter K, Lörinicz L, Weller D, Sutter T, Killeen T, Gruber P, Petersen JA, Weller M, **Linnebank M**. Monitoring long-term efficacy of fampridine in gait-impaired patients with multiple sclerosis. *Neurology*. 2017 Feb 28;88(9):832-841. doi: 10.1212/WNL.0000000000003656. Epub 2017 Feb 1. PubMed PMID: 28148629.

Ineichen BV, Plattner PS, Good N, Martin R, **Linnebank M**, Schwab ME. Nogo-A Antibodies for Progressive Multiple Sclerosis. *CNS Drugs*. 2017 Mar;31(3):187-198. doi: 10.1007/s40263-017-0407-2. PubMed PMID: 28105588.

Ineichen BV, Weinmann O, Good N, Plattner PS, Wicki C, Rushing EJ, Linnebank M, Schwab ME. Sudan black: a fast, easy and non-toxic method to assess myelin repair in demyelinating diseases. *Neuropathol Appl Neurobiol*. 2016 Dec 23. doi: 10.1111/nan.12373. [Epub ahead of print] PubMed PMID: 28009439.

Ineichen BV, Schnell L, Gullo M, Kaiser J, Schneider MP, Mosberger AC, Good N, **Linnebank M**, Schwab ME. Direct, long-term intrathecal application of therapeutics to the rodent CNS. *Nat Protoc*. 2017 Jan;12(1):104-131. doi: 10.1038/nprot.2016.151. Epub 2016 Dec 15. PubMed PMID: 27977023.

Linnebank M, McDougall CG, Krueger S, Biskup S, Neumann M, Weller M, Valavanis A, Prudlo J. Novel cases of amyotrophic lateral sclerosis after treatment of cerebral arteriovenous malformations. *Swiss Med Wkly*. 2016 Nov 12;146:w14361. doi: 10.4414/smw.2016.14361. eCollection 2016. PubMed PMID: 27878793.

Geisseler O, Pflugshaupt T, Bezzola L, Reuter K, Weller D, Schuknecht B, Brugger P, **Linnebank M**. The relevance of cortical lesions in patients with multiple sclerosis. *BMC Neurol*. 2016 Oct 21;16(1):204. PubMed PMID: 27769199; PubMed Central PMCID: PMC5073896.

Grigoriadis N, **Linnebank M**, Alexandri N, Muehl S, Hofbauer GF. Considerations on long-term immuno-intervention in the treatment of multiple sclerosis: an expert opinion. *Expert Opin Pharmacother*. 2016 Oct;17(15):2085-95. doi: 10.1080/14656566.2016.1232712. Epub 2016 Sep 15. Review. PubMed PMID: 27594523.

Killeen T, Easthope CS, Filli L, **Linnebank M**, Curt A, Bolliger M, Zörner B. Modulating Arm Swing Symmetry with Cognitive Load: A Window on Rhythmic Spinal Locomotor Networks in Humans? *J Neurotrauma*. 2016 Oct 12. [Epub ahead of print] PubMed PMID: 27574966.

Oikonomidi A, Lewczuk P, Kornhuber J, Smulders Y, **Linnebank M**, Semmler A, Popp J. Homocysteine metabolism is associated with cerebrospinal fluid levels of soluble amyloid precursor protein and amyloid beta. *J Neurochem*. 2016 Oct;139(2):324-332. doi: 10.1111/jnc.13766. Epub 2016 Sep 30. PubMed PMID: 27507672.

Kana V, Petersen JA, Ikenberg K, Chappaz A, Gerth-Kahlert C, Appenzeller P, **Linnebank M**. Teaching Neurolimages: Recurrent oculomotor palsies caused by neurosarcoidosis. *Neurology*. 2016 Jul 19;87(3):e31-2. doi: 10.1212/WNL.0000000000002865. PubMed PMID: 27432184.

Geisseler O, Pflugshaupt T, Buchmann A, Bezzola L, Reuter K, Schuknecht B, Weller D, **Linnebank M**, Brugger P. Random number generation deficits in patients with multiple sclerosis: Characteristics and neural correlates. *Cortex*. 2016 Sep;82:237-43. doi: 10.1016/j.cortex.2016.05.007. Epub 2016 May 21. PubMed PMID: 27403852.

Pflugshaupt T, Geisseler O, Nyffeler T, **Linnebank M**. Cognitive Impairment in Multiple Sclerosis: Clinical Manifestation, Neuroimaging Correlates, and Treatment. *Semin Neurol*. 2016 Apr;36(2):203-11. doi: 10.1055/s-0036-1579696. Epub 2016 Apr 26. PubMed PMID: 27116727.

Lublin F, Miller DH, Freedman MS, Cree BA, Wolinsky JS, Weiner H, Lubetzki C, Hartung HP, Montalban X, Uitdehaag BM, Merschhemke M, Li B, Putzki N, Liu FC, Häring DA, Kappos L; INFORMS study investigators.. Oral fingolimod in primary progressive multiple sclerosis (INFORMS): a phase 3, randomised, double-blind, placebo-controlled trial. *Lancet*. 2016 Mar 12;387(10023):1075-84. doi: 10.1016/S0140-6736(15)01314-8. Epub 2016 Jan 28. PubMed PMID: 26827074.

Zörner B, Filli L, Reuter K, Kapitza S, Lörincz L, Sutter T, Weller D, Farkas M, Easthope CS, Czaplinski A, Weller M, **Linnebank M**. Prolonged-release fampridine in multiple sclerosis: Improved ambulation effected by changes in walking pattern. *Mult Scler*. 2016 Oct;22(11):1463-1475. Epub 2016 Jan 13. PubMed PMID: 26762672.

Geisseler O, Pflugshaupt T, Bezzola L, Reuter K, Weller D, Schuknecht B, Brugger P, **Linnebank M**. Cortical thinning in the anterior cingulate cortex predicts multiple sclerosis patients' fluency performance in a lateralized manner. *Neuroimage Clin*. 2015 Nov 14;10:89-95. doi: 10.1016/j.nicl.2015.11.008. eCollection 2016. PubMed PMID: 26759784; PubMed Central PMCID: PMC4683425.

Pfender N, **Linnebank M**, Sommerauer M, Tarnutzer AA. Neurosyphilis presenting as a new onset lateralized movement disorder. *J Clin Neurosci*. 2015 Oct;22(10):1682-3. doi: 10.1016/j.jocn.2015.03.038. Epub 2015 Jun 6. PubMed PMID: 26055956.

Ulrich A, Müller D, **Linnebank M**, Tarnutzer AA. Pitfalls in the diagnostic evaluation of subacute combined degeneration. *BMJ Case Rep*. 2015 May 14;2015. pii: bcr2014208622. doi: 10.1136/bcr-2014-208622. PubMed PMID: 25976195.

Pfender N, Jelcic I, **Linnebank M**, Schwarz U, Martin R. Reactivation of herpesvirus under fingolimod: A case of severe herpes simplex encephalitis. *Neurology*. 2015 Jun 9;84(23):2377-8. doi: 10.1212/WNL.0000000000001659. Epub 2015 May 8. PubMed PMID: 25957334; PubMed Central PMCID: PMC4464745.

Semmler A, Heese P, Stoffel-Wagner B, Muschler M, Heberlein A, Bigler L, Prost JC, Frieling H, Kornhuber J, Banger M, Bleich S, Hillemacher T, Linnebank M. Alcohol abuse and cigarette smoking are associated with global DNA hypermethylation: results from the German Investigation on Neurobiology in Alcoholism (GINA). *Alcohol*. 2015 Mar;49(2):97-101. doi: 10.1016/j.alcohol.2015.01.004. Epub 2015 Jan 20. PubMed PMID: 25702197.

Wolpert F, Baráth K, Brakowski J, Renzel R, **Linnebank M**, Gantenbein AR. Funicular myelosis in a butcher: it was the cream cans. *Case Rep Neurol Med*. 2015;2015:827168. doi: 10.1155/2015/827168. Epub 2015 Jan 28. PubMed PMID: 25694837; PubMed Central PMCID: PMC4324743.

Bleich S, Semmler A, Frieling H, Thumfart L, Muschler M, Hillemacher T, Kornhuber J, Kallweit U, Simon M, **Linnebank M**. Genetic variants of methionine metabolism and DNA methylation. *Epigenomics*. 2014;6(6):585-91. doi: 10.2217/epi.14.54. PubMed PMID: 25531253.

Haschemi Nassab M, Rhein M, Heese P, Glahn A, Frieling H, **Linnebank M**, Bleich S, Kornhuber J, Heberlein A, Grallert H, Peters A, Rawal R, Strauch K, Hillemacher T. No association between the ALDH2 promoter polymorphism rs886205, alcohol dependence, and risky alcohol consumption in a German population. *Psychiatr Genet*. 2015 Feb;25(1):41-2. doi: 10.1097/YPG.000000000000073. PubMed PMID: 25419637.

Wegener S, **Linnebank M**, Martin R, Valavanis A, Weller M. Clinically isolated neurosarcoidosis: a recommended diagnostic path. *Eur Neurol*. 2015;73(1-2):71-7. doi: 10.1159/000366199. Epub 2014 Nov 12. PubMed PMID: 25401278.

Pflugshaupt T, Nösberger M, Gutbrod K, Weber KP, **Linnebank M**, Brugger P. Bottom-up Visual Integration in the Medial Parietal Lobe. *Cereb Cortex*. 2016 Mar;26(3):943-9. doi: 10.1093/cercor/bhu256. Epub 2014 Oct 19. PubMed PMID: 25331599.

Keskitalo S, Farkas M, Hanenberg M, Szodorai A, Kulic L, Semmler A, Weller M, Nitsch RM, **Linnebank M**. Reciprocal modulation of A β 42 aggregation by copper and homocysteine. *Front Aging Neurosci*. 2014 Sep 8;6:237. doi: 10.3389/fnagi.2014.00237. eCollection 2014. PubMed PMID: 25249976; PubMed Central PMCID: PMC4157544.

Kunkel S, **Linnebank M**, Staudacher D, Spirig R. [Supporting the self efficacy of the patient]. *Krankenpfl Soins Infirm*. 2014;107(1):30-1. German. PubMed PMID: 24575566.

Valavanis A, Schwarz U, Baumann CR, Weller M, **Linnebank M**. Amyotrophic lateral sclerosis after embolization of cerebral arteriovenous malformations. *J Neurol*. 2014 Apr;261(4):732-7. doi: 10.1007/s00415-014-7260-8. Epub 2014 Feb 8. PubMed PMID: 24509642.

Haertle M, Kallweit U, Weller M, **Linnebank M**. The presence of oligoclonal IgG bands in human CSF during the course of neurological diseases. *J Neurol*. 2014 Mar;261(3):554-60. doi: 10.1007/s00415-013-7234-2. Epub 2014 Jan 22. PubMed PMID: 24449061.

Ineichen BV, Keskitalo S, Farkas M, Bain N, Kallweit U, Weller M, Klotz L, **Linnebank M**. Genetic variants of homocysteine metabolism and multiple sclerosis: a case-control study. *Neurosci Lett*. 2014 Mar 6;562:75-8. doi: 10.1016/j.neulet.2014.01.008. Epub 2014 Jan 9. PubMed PMID: 24412677.

Kallweit U, Baumann CR, Harzheim M, Hidalgo H, Pöhlau D, Bassetti CL, **Linnebank M**, Valko PO. Fatigue and sleep-disordered breathing in multiple sclerosis: a clinically relevant

association? *Mult Scler Int*. 2013;2013:286581. doi: 10.1155/2013/286581. Epub 2013 Oct 22. PubMed PMID: 24251039; PubMed Central PMCID: PMC3819751.

Ramirez JO, Cabrera SA, Hidalgo H, Cabrera SG, **Linnebank M**, Bassetti CL, Kallweit U. Is preeclampsia associated with restless legs syndrome? *Sleep Med*. 2013 Sep;14(9):894-6. doi: 10.1016/j.sleep.2013.03.013. Epub 2013 Jul 23. PubMed PMID: 23891236.

Schippling S, Kempf C, Büchele F, Jelcic I, Bozinov O, Bont A, **Linnebank M**, Sospedra M, Weller M, Budka H, Martin R. JC virus granule cell neuronopathy and GCN-IRIS under natalizumab treatment. *Ann Neurol*. 2013 Oct;74(4):622-6. doi: 10.1002/ana.23973. Epub 2013 Sep 16. PubMed PMID: 23868420.

Gobbi C, Zecca C, **Linnebank M**, Müller S, You X, Meier R, Borter E, Traber M. Swiss analysis of multiple sclerosis: a multicenter, non-interventional, retrospective cohort study of disease-modifying therapies. *Eur Neurol*. 2013;70(1-2):35-41. doi: 10.1159/000346761. Epub 2013 May 14. PubMed PMID: 23689307.

Kallweit U, Aritake K, Bassetti CL, Blumenthal S, Hayaishi O, **Linnebank M**, Baumann CR, Urade Y. Elevated CSF histamine levels in multiple sclerosis patients. *Fluids Barriers CNS*. 2013 May 9;10:19. doi: 10.1186/2045-8118-10-19. eCollection 2013. PubMed PMID: 23659456; PubMed Central PMCID: PMC3656773.

Preiningerova JL, Baumhackl U, Csepány T, Czaplinski A, Deisenhammer F, Derfuss T, Fabjan TH, Fazekas F, Fuchs S, Havrdova E, Ledinek AH, Illes Z, Jazbec SS, Klimova E, Komoly S, Kurca E, **Linnebank M**, Lisy L, Mares J, Prochazkova L, Csilla R, Szilasiova J, Stourac P, Talab R, Turcani P, Vachova M, Vecsei , Vodusek D, Zapletalova O, Berger T. Recommendations for the use of prolonged-release fampridine in patients with multiple sclerosis (MS). *CNS Neurosci Ther*. 2013 May;19(5):302-6. doi: 10.1111/cns.12101. PubMed PMID: 23607697.

Semmler A, Prost JC, Smulders Y, Smith D, Blom H, Bigler L, **Linnebank M**. Methylation metabolism in sepsis and systemic inflammatory response syndrome. *Scand J Clin Lab Invest*. 2013 Aug;73(5):368-72. doi: 10.3109/00365513.2013.785587. Epub 2013 Apr 8. PubMed PMID: 23566119.

Semmler A, Moskau-Hartmann S, Stoffel-Wagner B, Elger C, **Linnebank M**. Homocysteine plasma levels in patients treated with antiepileptic drugs depend on folate and vitamin B12 serum levels, but not on genetic variants of homocysteine metabolism. *Clin Chem Lab Med*. 2013 Mar 1;51(3):665-9. doi: 10.1515/cclm-2012-0580. PubMed PMID: 23382314.

Semmler A, Garbe S, Moskau S, Frisch C, Eter N, Schlegel U, **Linnebank M**. An efficient method for fractionated whole rodent brain radiation. *Neurol Res*. 2013 May;35(4):355-9. doi: 10.1179/1743132812Y.0000000143. Epub 2013 Jan 10. PubMed PMID: 23336750.

Kuebler U, **Linnebank M**, Semmler A, Stoffel-Wagner B, La Marca R, Ehlert U, Wirtz PH. Plasma homocysteine levels increase following stress in older but not younger men. *Psychoneuroendocrinology*. 2013 Aug;38(8):1381-7. doi: 10.1016/j.psyneuen.2012.12.003. Epub 2013 Jan 9. PubMed PMID: 23312061.

Schaub C, Uebachs M, Beck H, **Linnebank M**. Chronic homocysteine exposure causes changes in the intrinsic electrophysiological properties of cultured hippocampal neurons. *Exp Brain Res*. 2013 Apr;225(4):527-34. doi: 10.1007/s00221-012-3392-1. Epub 2013 Jan 10. PubMed PMID: 23307157.

Linnebank M, Moskau S, Semmler A, Hoefgen B, Bopp G, Kallweit U, Maier W, Schütz CG, Wüllner U. A possible genetic link between MTHFR genotype and smoking behavior. *PLoS One*. 2012;7(12):e53322. doi: 10.1371/journal.pone.0053322. Epub 2012 Dec 28. PubMed PMID: 23285280; PubMed Central PMCID: PMC3532068.

Farkas M, Keskitalo S, Smith DE, Bain N, Semmler A, Ineichen B, Smulders Y, Blom H, Kulic L, **Linnebank M**. Hyperhomocysteinemia in Alzheimer's disease: the hen and the egg? *J Alzheimers Dis*. 2013;33(4):1097-104. doi: 10.3233/JAD-2012-121378. PubMed PMID: 23099812.

Linnebank M, Moskau S, Kowoll A, Semmler A, Bangard C, Vogt-Schaden M, Egerer G, Schackert G, Reichmann H, Schmidt-Wolf IG, Pels H, Schlegel U. Association of transcobalamin c. 776C>G with overall survival in patients with primary central nervous system lymphoma. *Br J Cancer*. 2012 Nov 20;107(11):1840-3. doi: 10.1038/bjc.2012.476. Epub 2012 Oct 25. PubMed PMID: 23099805; PubMed Central PMCID: PMC3504945.

Harrer A, Tumani H, Niendorf S, Lauda F, Geis C, Weishaupt A, Kleinschnitz C, Rauer S, Kuhle J, Stangel M, Weber F, Uhr M, **Linnebank M**, Wildemann B, Jarius S, Guger M, Ayzenberg I, Chan A, Zettl U, Wiendl H, Pilz G, Hitzl W, Weber JR, Kraus J. Cerebrospinal fluid parameters of B cell-related activity in patients with active disease during natalizumab therapy. *Mult Scler*. 2013 Aug;19(9):1209-12. doi: 10.1177/1352458512463483. Epub 2012 Oct 23. PubMed PMID: 23093485.

Gold R, Kappos L, Arnold DL, Bar-Or A, Giovannoni G, Selmaj K, Tornatore C, Sweetser MT, Yang M, Sheikh SI, Dawson KT; DEFINE Study Investigators. Placebo-controlled phase 3 study of oral BG-12 for relapsing multiple sclerosis. *N Engl J Med*. 2012 Sep 20;367(12):1098-107. Erratum in: *N Engl J Med*. 2012 Dec 13;367(24):2362. PubMed PMID: 22992073.

Smith DE, Smulders YM, Blom HJ, Popp J, Jessen F, Semmler A, Farkas M, **Linnebank M**. Determinants of the essential one-carbon metabolism metabolites, homocysteine, S-adenosylmethionine, S-adenosylhomocysteine and folate, in cerebrospinal fluid. *Clin Chem Lab Med*. 2012 Mar 24;50(9):1641-7. doi: 10.1515/cclm-2012-0056. PubMed PMID: 22962226.

Schreglmann SR, Jelčić I, Taegtmeyer AB, **Linnebank M**, Weller M. Multifocal CNS demyelination after octreotide treatment for metastatic meningioma. *Clin Neurol Neurosurg*. 2013 Jun;115(6):817-9. doi: 10.1016/j.clineuro.2012.07.021. Epub 2012 Aug 5. PubMed PMID: 22874886.

Radue EW, O'Connor P, Polman CH, Hohlfeld R, Calabresi P, Selmaj K, Mueller-Lenke N, Agoropoulou C, Holdbrook F, de Vera A, Zhang-Auberson L, Francis G, Burtin P, Kappos L;

FTY720 Research Evaluating Effects of Daily Oral Therapy in Multiple Sclerosis (FREEDOMS) Study Group.. Impact of fingolimod therapy on magnetic resonance imaging outcomes in patients with multiple sclerosis. *Arch Neurol*. 2012 Oct;69(10):1259-69. PubMed PMID: 22751847.

Arlt S, Schwedhelm E, Kölsch H, Jahn H, **Linnebank M**, Smulders Y, Jessen F, Böger RH, Popp J. Dimethylarginines, homocysteine metabolism, and cerebrospinal fluid markers for Alzheimer's disease. *J Alzheimers Dis*. 2012;31(4):751-8. doi: 10.3233/JAD-2012-112138. PubMed PMID: 22710910.

Heese P, **Linnebank M**, Semmler A, Muschler MA, Heberlein A, Frieling H, Stoffel-Wagner B, Kornhuber J, Banger M, Bleich S, Hillemacher T. Alterations of homocysteine serum levels during alcohol withdrawal are influenced by folate and riboflavin: results from the German Investigation on Neurobiology in Alcoholism (GINA). *Alcohol Alcohol*. 2012 Sep-Oct;47(5):497-500. doi: 10.1093/alcalc/ags058. Epub 2012 May 29. PubMed PMID: 22645037.

Devonshire V, Havrdova E, Radue EW, O'Connor P, Zhang-Auberson L, Agoropoulou C, Häring DA, Francis G, Kappos L; FREEDOMS study group.. Relapse and disability outcomes in patients with multiple sclerosis treated with fingolimod: subgroup analyses of the double-blind, randomised, placebo-controlled FREEDOMS study. *Lancet Neurol*. 2012 May;11(5):420-8. doi: 10.1016/S1474-4422(12)70056-X. Epub 2012 Apr 10. Erratum in: *Lancet Neurol*. 2012 Aug;11(8):658. PubMed PMID: 22494956.

Linnebank M, Moskau S, Semmler A, Widman G, Weller M, Kallweit U, Elger CE. Antiepileptic drugs and vitamin B6 plasma levels in adult patients. *Epilepsy Res*. 2012 Aug;101(1-2):182-4. doi: 10.1016/j.eplepsyres.2012.03.002. Epub 2012 Mar 30. PubMed PMID: 22464176.

Grimaldi L, Barkhof F, Beelke M, Burton J, Holmoy T, Hupperts R, Killestein J, Rieckmann P, Schlupe M, Smolders J; SOLAR Study Group.. A randomized trial of high-dose vitamin D2 in relapsing-remitting multiple sclerosis. *Neurology*. 2012 Mar 13;78(11):841. doi: 10.1212/01.wnl.0000413180.13413.ce. PubMed PMID: 22411961.

Petersen JA, Jung HH, Weller M, **Linnebank M**. Autoimmune myasthenia gravis after sternal fracture. *Case Rep Neurol*. 2012 Jan;4(1):20-2. doi: 10.1159/000335992. Epub 2012 Jan 20. PubMed PMID: 22393321; PubMed Central PMCID: PMC3291889.

Kallweit U, Jelcic I, Braun N, Fischer H, Zörner B, Schreiner B, Sokolov AA, Martin R, Weller M, **Linnebank M**. Sustained efficacy of natalizumab in the treatment of relapsing-remitting multiple sclerosis independent of disease activity and disability at baseline: real-life data from a Swiss cohort. *Clin Neuropharmacol*. 2012 Mar-Apr;35(2):77-80. doi: 10.1097/WNF.0b013e31824644e6. PubMed PMID: 22318192.

Semmler A, Frisch C, Smith D, Blom H, **Linnebank M**. The ratio of S-adenosylmethione and S-adenosyl-homocysteine is increased in the brains of newborn rats in a model of valproic acid teratogenicity. *Toxicology*. 2012 Mar 11;293(1-3):132-3. doi: 10.1016/j.tox.2012.01.001. Epub 2012 Jan 11. PubMed PMID: 22248911.

Semmler A, Moskau S, Lutz H, Meyer P, **Linnebank M**. Haplotype analysis of the 5,10-methylenetetrahydrofolate reductase (MTHFR) c.1298A>C (E429A) polymorphism. *BMC Res Notes*. 2011 Oct 24;4:439. doi: 10.1186/1756-0500-4-439. PubMed PMID: 22023786; PubMed Central PMCID: PMC3212962.

Bernhart-Just A, Kunkel S, **Linnebank M**, Staudacher D, Spirig R. [Competence center for patients with multiple sclerosis: a future oriented health care model]. *Krankenpfl Soins Infirm*. 2011;104(10):15-7. German. PubMed PMID: 21991766.

Aly L, Yousef S, Schippling S, Jelcic I, Breiden P, Matschke J, Schulz R, Bofill-Mas S, Jones L, Demina V, **Linnebank M**, Ogg G, Girones R, Weber T, Sospedra M, Martin R. Central role of JC virus-specific CD4+ lymphocytes in progressive multi-focal leucoencephalopathy-immune reconstitution inflammatory syndrome. *Brain*. 2011 Sep;134(Pt 9):2687-702. doi: 10.1093/brain/awr206. PubMed PMID: 21908874.

Conzett KB, Kolm I, Jelcic I, Kamarachev J, Dummer R, Braun R, French LE, **Linnebank M**, Hofbauer GF. Melanoma occurring during treatment with fingolimod for multiple sclerosis: a case report. *Arch Dermatol*. 2011 Aug;147(8):991-2. doi: 10.1001/archdermatol.2011.212. PubMed PMID: 21844470.

Holmes MV, Newcombe P, Hubacek JA, Sofat R, Ricketts SL, Cooper J, Breteler MM, Bautista LE, Sharma P, Whittaker JC, Smeeth L, Fowkes FG, Algra A, Shmeleva V, Szolnoki Z, Roest M, **Linnebank M**, Zacho J, Nalls MA, Singleton AB, Ferrucci L, Hardy J, Worrall BB, Rich SS, Matarin M, Norman PE, Flicker L, Almeida OP, van Bockxmeer FM, Shimokata H, Khaw KT, Wareham NJ, Bobak M, Sterne JA, Smith GD, Talmud PJ, van Duijn C, Humphries SE, Price JF, Ebrahim S, Lawlor DA, Hankey GJ, Meschia JF, Sandhu MS, Hingorani AD, Casas JP. Effect modification by population dietary folate on the association between MTHFR genotype, homocysteine, and stroke risk: a meta-analysis of genetic studies and randomised trials. *Lancet*. 2011 Aug 13;378(9791):584-94. doi: 10.1016/S0140-6736(11)60872-6. Epub 2011 Jul 29. PubMed PMID: 21803414; PubMed Central PMCID: PMC3156981.

Wittmann M, Dewald D, Urbach H, Gast AS, **Linnebank M**, Baumgarten G, Knuefermann P, Hering R. Sinus venous thrombosis: a differential diagnosis of postpartum headache. *Arch Gynecol Obstet*. 2012 Jan;285(1):93-7. doi: 10.1007/s00404-011-1964-0. Epub 2011 Jul 20. PubMed PMID: 21773786.

Patrij K, Reiser M, Wätzel L, Pels H, Kowoll A, Herrlinger U, Engert A, **Linnebank M**, Schackert G, Vogt-Schaden M, Egerer G, Lamprecht M, Batchelor TT, Schlegel U, Schmidt-Wolf IG; International Primary CNS Lymphoma Collaborative Group (IPCG).. Isolated central nervous system relapse of systemic lymphoma (SCNSL): clinical features and outcome of a retrospective analysis. *Ger Med Sci*. 2011;9:Doc11. doi: 10.3205/000134. Epub 2011 May 2. PubMed PMID: 21698087; PubMed Central PMCID: PMC3118693.

Linnebank M, Moskau S, Semmler A, Widman G, Stoffel-Wagner B, Weller M, Elger CE. Antiepileptic drugs interact with folate and vitamin B12 serum levels. *Ann Neurol*. 2011 Feb;69(2):352-9. doi: 10.1002/ana.22229. Epub 2011 Jan 19. PubMed PMID: 21246600.

Kühnlein P, Jung H, Farkas M, Keskitalo S, Ineichen B, Jelcic I, Petersen J, Semmler A, Weller M, Ludolph AC, **Linnebank M**. The thermolabile variant of 5,10-methylenetetrahydrofolate reductase is a possible risk factor for amyotrophic lateral sclerosis. *Amyotroph Lateral Scler*. 2011 Mar;12(2):136-9. doi: 10.3109/17482968.2010.536985. Epub 2010 Dec 6. PubMed PMID: 21128869.

Semmler A, Farmand S, Moskau S, Stoffel-Wagner B, **Linnebank M**. The G allele of transcobalamin 2 c.776C→G is associated with an unfavorable lipoprotein profile. *Ann Nutr Metab*. 2010;57(2):112-5. doi: 10.1159/000320418. Epub 2010 Oct 14. PubMed PMID: 20948192.

Semmler A, Moskau S, Grigull A, Farmand S, Klockgether T, Smulders Y, Blom H, Zur B, Stoffel-Wagner B, **Linnebank M**. Plasma folate levels are associated with the lipoprotein profile: a retrospective database analysis. *Nutr J*. 2010 Jul 28;9:31. doi: 10.1186/1475-2891-9-31. PubMed PMID: 20667074; PubMed Central PMCID: PMC2916887.

Linnebank M, Popp J, Smulders Y, Smith D, Semmler A, Farkas M, Kulic L, Cvetanovska G, Blom H, Stoffel-Wagner B, Kölsch H, Weller M, Jessen F. S-adenosylmethionine is decreased in the cerebrospinal fluid of patients with Alzheimer's disease. *Neurodegener Dis*. 2010;7(6):373-8. doi: 10.1159/000309657. Epub 2010 Jun 3. PubMed PMID: 20523031.

Riederer F, Sándor PS, **Linnebank M**, Ettl DA. Familial occipital and nervus intermedius neuralgia in a Swiss family. *J Headache Pain*. 2010 Aug;11(4):335-8. doi: 10.1007/s10194-010-0207-2. Epub 2010 Mar 28. PubMed PMID: 20349261; PubMed Central PMCID: PMC3476342.

Tamagni C, Mondadori CR, Valko PO, Brugger P, Schuknecht B, **Linnebank M**. Cerebellum and source memory. *Eur Neurol*. 2010;63(4):234-6. doi: 10.1159/000282277. Epub 2010 Mar 19. PubMed PMID: 20299799.

Kurzwelly D, Knop S, Guenther M, Loeffler J, Korfel A, Thiel E, Hebart H, Simon M, Weller M, **Linnebank M**, Herrlinger U. Genetic variants of folate and methionine metabolism and PCNSL incidence in a German patient population. *J Neurooncol*. 2010 Nov;100(2):187-92. doi: 10.1007/s11060-010-0154-4. Epub 2010 Mar 17. PubMed PMID: 20237949.

Juergens A, Pels H, Rogowski S, Fliessbach K, Glasmacher A, Engert A, Reiser M, Diehl V, Vogt-Schaden M, Egerer G, Schackert G, Reichmann H, Kroschinsky F, Bode U, Herrlinger U, **Linnebank M**, Deckert M, Fimmers R, Schmidt-Wolf IG, Schlegel U. Long-term survival with favorable cognitive outcome after chemotherapy in primary central nervous system lymphoma. *Ann Neurol*. 2010 Feb;67(2):182-9. doi: 10.1002/ana.21824. PubMed PMID: 20225195.

Hofer S, **Linnebank M**, Weller M, Bahmanyar S, Montgomery SM, Hillert J, Ekblom A, Olsson T. Cancer risk among patients with multiple sclerosis and their parents. *Neurology*. 2010 Feb 16;74(7):614-5; author reply 615. doi: 10.1212/WNL.0b013e3181c777b7. PubMed PMID: 20157167.

Kappos L, Radue EW, O'Connor P, Polman C, Hohlfeld R, Calabresi P, Selmaj K, Agoropoulou C, Leyk M, Zhang-Auberson L, Burtin P; FREEDOMS Study Group.. A placebo-controlled trial of oral fingolimod in relapsing multiple sclerosis. *N Engl J Med*. 2010 Feb 4;362(5):387-401. doi: 10.1056/NEJMoa0909494. Epub 2010 Jan 20. PubMed PMID: 20089952.

Semmler A, Moskau S, Stoffel-Wagner B, Weller M, **Linnebank M**. The effect of MTHFR c.677C>T on plasma homocysteine levels depends on health, age and smoking. *Clin Invest Med*. 2009 Dec 1;32(6):E310. PubMed PMID: 20003837.

Moskau S, Semmler A, Stoffel-Wagner B, **Linnebank M**. Plasma homocysteine levels after acute stroke and in the convalescent phase. *Can J Neurol Sci*. 2009 Nov;36(6):789-90. PubMed PMID: 19960764.

Klotz L, Farkas M, Bain N, Keskitalo S, Semmler A, Ineichen B, Jelcic J, Klockgether T, Kölsch H, Weller M, **Linnebank M**. The variant methylenetetrahydrofolate reductase c.1298A>C (p.E429A) is associated with multiple sclerosis in a German case-control study. *Neurosci Lett*. 2010 Jan 14;468(3):183-5. doi: 10.1016/j.neulet.2009.10.057. Epub 2009 Oct 23. PubMed PMID: 19854238.

Ackermann R, Semmler A, Maurer GD, Hattingen E, Fornoff F, Steinbach JP, **Linnebank M**. Methotrexate-induced myelopathy responsive to substitution of multiple folate metabolites. *J Neurooncol*. 2010 May;97(3):425-7. doi: 10.1007/s11060-009-0028-9. Epub 2009 Oct 11. PubMed PMID: 19821069.

Stanger O, Fowler B, Piertz K, Huemer M, Haschke-Becher E, Semmler A, Lorenz S, **Linnebank M**. Homocysteine, folate and vitamin B12 in neuropsychiatric diseases: review and treatment recommendations. *Expert Rev Neurother*. 2009 Sep;9(9):1393-412. doi: 10.1586/ern.09.75. Review. PubMed PMID: 19769453.

Popp J, Lewczuk P, **Linnebank M**, Cvetanovska G, Smulders Y, Kölsch H, Frommann I, Kornhuber J, Maier W, Jessen F. Homocysteine metabolism and cerebrospinal fluid markers for Alzheimer's disease. *J Alzheimers Dis*. 2009;18(4):819-28. doi: 10.3233/JAD-2009-1187. PubMed PMID: 19661622.

Moskau S, Smolka K, Semmler A, Schweichel D, Harbrecht U, Müller J, Pohl C, Klockgether T, **Linnebank M**. Common genetic coagulation variants are not associated with ischemic stroke in a case-control study. *Neurol Res*. 2010 Jun;32(5):519-22. doi: 10.1179/016164109X12464612122533. Epub 2009 Aug 5. PubMed PMID: 19660184.

Shete S, Hosking FJ, Robertson LB, Dobbins SE, Sanson M, Malmer B, Simon M, Marie Y, Boisselier B, Delattre JY, Hoang-Xuan K, El Hallani S, Idbaih A, Zelenika D, Andersson U, Henriksson R, Bergenheim AT, Feychting M, Lönn S, Ahlbom A, Schramm J, **Linnebank M**, Hemminki K, Kumar R, Hepworth SJ, Price A, Armstrong G, Liu Y, Gu X, Yu R, Lau C, Schoemaker M, Muir K, Swerdlow A, Lathrop M, Bondy M, Houlston RS. Genome-wide association study identifies five susceptibility loci for glioma. *Nat Genet*. 2009 Aug;41(8):899-904. doi: 10.1038/ng.407. Epub 2009 Jul 5. PubMed PMID: 19578367; PubMed Central PMCID: PMC4501476.

Lenz B, Soehngen C, **Linnebank M**, Heberlein A, Frieling H, Kornhuber J, Hillemacher T, Bleich S. Genetic polymorphisms relevant for one-carbon metabolism show no effect on homocysteine plasma levels and DNA methylation in alcoholism. *Psychiatr Genet*. 2009 Aug;19(4):215-6. doi: 10.1097/YPG.0b013e32832cec44. PubMed PMID: 19461557.

Häberle J, Pauli S, Berning C, Koch HG, **Linnebank M**. TC II deficiency: avoidance of false-negative molecular genetics by RNA-based investigations. *J Hum Genet*. 2009 Jun;54(6):331-4. doi: 10.1038/jhg.2009.34. Epub 2009 Apr 17. PubMed PMID: 19373259.

Semmler A, Bao X, Cao G, Köhler W, Weller M, Aubourg P, **Linnebank M**. Genetic variants of methionine metabolism and X-ALD phenotype generation: results of a new study sample. *J Neurol*. 2009 Aug;256(8):1277-80. doi: 10.1007/s00415-009-5114-6. Epub 2009 Apr 8. PubMed PMID: 19353223.

Rakovic A, Stiller B, Djarmati A, Flaquer A, Freudenberg J, Toliat MR, **Linnebank M**, Kostic V, Lohmann K, Paus S, Nürnberg P, Kubisch C, Klein C, Wüllner U, Ramirez A. Genetic association study of the P-type ATPase ATP13A2 in late-onset Parkinson's disease. *Mov Disord*. 2009 Feb 15;24(3):429-33. doi: 10.1002/mds.22399. PubMed PMID: 19097176.

Happold C, Roth P, Wick W, Steinbach JP, **Linnebank M**, Weller M, Eisele G. ACNU-based chemotherapy for recurrent glioma in the temozolomide era. *J Neurooncol*. 2009 Mar;92(1):45-8. doi: 10.1007/s11060-008-9728-9. Epub 2008 Nov 6. PubMed PMID: 18987781.

Pels H, Juergens A, Glasmacher A, Schulz H, Engert A, **Linnebank M**, Schackert G, Reichmann H, Kroschinsky F, Vogt-Schaden M, Egerer G, Bode U, Schaller C, Lamprecht M, Hau P, Deckert M, Fimmers R, Bangard C, Schmidt-Wolf IG, Schlegel U. Early relapses in primary CNS lymphoma after response to polychemotherapy without intraventricular treatment: results of a phase II study. *J Neurooncol*. 2009 Feb;91(3):299-305. doi: 10.1007/s11060-008-9712-4. Epub 2008 Oct 18. PubMed PMID: 18931887.

Semmler A, Smulders Y, Struys E, Smith D, Moskau S, Blom H, **Linnebank M**. Methionine metabolism in an animal model of sepsis. *Clin Chem Lab Med*. 2008;46(10):1398-402. doi: 10.1515/CCLM.2008.277. PubMed PMID: 18844494.

Linnebank M, Moskau S, Jürgens A, Simon M, Semmler A, Orlopp K, Glasmacher A, Bangard C, Vogt-Schaden M, Urbach H, Schmidt-Wolf IG, Pels H, Schlegel U. Association of genetic variants of methionine metabolism with methotrexate-induced CNS white matter changes in patients with primary CNS lymphoma. *Neuro Oncol*. 2009 Feb;11(1):2-8. doi: 10.1215/15228517-2008-082. Epub 2008 Sep 19. PubMed PMID: 18806228; PubMed Central PMCID: PMC2718955.

Semmler A, **Linnebank M**, Krex D, Götz A, Moskau S, Ziegler A, Simon M. Polymorphisms of homocysteine metabolism are associated with intracranial aneurysms. *Cerebrovasc Dis*. 2008;26(4):425-9. doi: 10.1159/000155638. Epub 2008 Sep 18. PubMed PMID: 18799873.

Semmler A, Köhler W, Jung HH, Weller M, **Linnebank M**. Therapy of X-linked adrenoleukodystrophy. *Expert Rev Neurother*. 2008 Sep;8(9):1367-79. doi: 10.1586/14737175.8.9.1367. Review. PubMed PMID: 18759549.

Kurzwelly D, Müller CA, Korfel A, Thiel E, **Linnebank M**, Weller M, Herrlinger U. Primary CNS lymphoma and HLA class I and II alleles in a German cohort of immunocompetent patients. *J Neurooncol*. 2008 Oct;90(1):53-5. doi: 10.1007/s11060-008-9630-5. Epub 2008 Jun 28. PubMed PMID: 18587537.

Linnebank M, Semmler A, Moskau S, Smulders Y, Blom H, Simon M. The methylenetetrahydrofolate reductase (MTHFR) variant c.677C>T (A222V) influences overall survival of patients with glioblastoma multiforme. *Neuro Oncol*. 2008 Aug;10(4):548-52. doi: 10.1215/15228517-2008-020. Epub 2008 May 22. PubMed PMID: 18497326; PubMed Central PMCID: PMC2666227.

Semmler A, Simon M, Moskau S, **Linnebank M**. Polymorphisms of methionine metabolism and susceptibility to meningioma formation: laboratory investigation. *J Neurosurg*. 2008 May;108(5):999-1004. doi: 10.3171/JNS/2008/108/5/0999. PubMed PMID: 18447718.

Hillemacher T, Frieling H, Moskau S, Muschler MA, Semmler A, Kornhuber J, Klockgether T, Bleich S, **Linnebank M**. Global DNA methylation is influenced by smoking behaviour. *Eur Neuropsychopharmacol*. 2008 Apr;18(4):295-8. doi: 10.1016/j.euroneuro.2007.12.005. Epub 2008 Jan 31. PubMed PMID: 18242065.

Lorenzl S, **Linnebank M**, Stanger O. B vitamins and cerebral ischemia. *Dtsch Arztebl Int*. 2008 Feb;105(7):128-9; author reply 129. doi: 10.3238/arztebl.2008.0128c. Epub 2008 Feb 15. PubMed PMID: 19633766; PubMed Central PMCID: PMC2696725.

Becker A, Vezmar S, **Linnebank M**, Pels H, Bode U, Schlegel U, Jaehde U. Marked elevation in homocysteine and homocysteine sulfinic acid in the cerebrospinal fluid of lymphoma patients receiving intensive treatment with methotrexate. *Int J Clin Pharmacol Ther*. 2007 Sep;45(9):504-15. PubMed PMID: 17907593.

Linnebank M, Malessa S, Moskau S, Semmler A, Pels H, Klockgether T, Schlegel U. Acute methotrexate-induced encephalopathy--causal relation to homozygous allelic state for MTR c.2756A>G (D919G)? *J Chemother*. 2007 Aug;19(4):455-7. PubMed PMID: 17855192.

Semmler A, Klein A, Moskau S, **Linnebank M**. Transient global amnesia-like episode in a patient with severe hyperhomocysteinemia. *Eur J Neurol*. 2007 Sep;14(9):e5-6. PubMed PMID: 17718682.

Semmler A, Urbach H, Klockgether T, **Linnebank M**. Progressive multifocal leukoencephalopathy with selective involvement of the pyramidal tracts. *Neurology*. 2007 Mar 13;68(11):871. PubMed PMID: 17353479.

Moskau S, Farmand S, Semmler A, Wüllner U, Pohl C, Klockgether T, Linnebank M. The methionine synthase polymorphism c.2756A>G (D919G) influences diastolic blood

pressure. *J Hum Hypertens*. 2007 May;21(5):418-20. Epub 2007 Feb 8. PubMed PMID: 17287836.

Volk A, Karbasiyan M, Semmler A, Todt U, Urbach H, Klockgether T, Linnebank M. Adult index patient with Currarino syndrome due to a novel HLXB9 mutation, c.336dupG (p.P113fsX224), presenting with Hirschsprung's disease, cephalgia, and lumbodynia. *Birth Defects Res A Clin Mol Teratol*. 2007 Mar;79(3):249-51. PubMed PMID: 17183586.

Semmler A, Simon M, Moskau S, **Linnebank M**. The methionine synthase polymorphism c.2756A>G alters susceptibility to glioblastoma multiforme. *Cancer Epidemiol Biomarkers Prev*. 2006 Nov;15(11):2314-6. PubMed PMID: 17119065.

Vyletal P, Sokolová J, Cooper DN, Kraus JP, Krawczak M, Pepe G, Rickards O, Koch HG, **Linnebank M**, Kluijtmans LA, Blom HJ, Boers GH, Gaustadnes M, Skovby F, Wilcken B, Wilcken DE, Andria G, Sebastio G, Naughten ER, Yap S, Ohura T, Pronicka E, Laszlo A, Kozich V. Diversity of cystathionine beta-synthase haplotypes bearing the most common homocystinuria mutation c.833T>C: a possible role for gene conversion. *Hum Mutat*. 2007 Mar;28(3):255-64. PubMed PMID: 17072863; PubMed Central PMCID: PMC2630376.

Linnebank M, Moskau S, Farmand S, Fliessbach K, Kölsch H, Bös M, Grothe C, Becker D, Harbrecht U, Pohl C, Wüllner U, Klockgether T. Homocysteine and carotid intima-media thickness in a German population: lack of clinical relevance. *Stroke*. 2006 Nov;37(11):2840-2. Epub 2006 Sep 28. PubMed PMID: 17008631.

Semmler A, Stein RW, Caplan L, Danilov SM, Klockgether T, **Linnebank M**. Hereditary hyper-ACE-emia due to the Pro1199Leu mutation of somatic ACE as a potential pitfall in diagnosis: a first family outside Europe. *Clin Chem Lab Med*. 2006;44(9):1088-9. PubMed PMID: 16958600.

Linnebank M, Semmler A, Kleijer WJ, van der Sterre ML, Gärtner J, Fliessbach K, Sokolowski P, Köhler W, Schlegel U, Klockgether T, Wanders RJ, Schmidt S, Wüllner U, Kemp S. The cystathionine beta-synthase variant c.844_845ins68 protects against CNS demyelination in X-linked adrenoleukodystrophy. *Hum Mutat*. 2006 Oct;27(10):1063-4. PubMed PMID: 16941496.

Wellmer J, Sturm KU, Herrmann W, Hoever J, Klockgether T, **Linnebank M**. [Oral treatment of vitamin B12 deficiency in subacute combined degeneration]. *Nervenarzt*. 2006 Oct;77(10):1228-31. German. PubMed PMID: 16897048.

Linnebank M, Lutz H, Jarre E, Vielhaber S, Noelker C, Struys E, Jakobs C, Klockgether T, Evert BO, Kunz WS, Wüllner U. Binding of copper is a mechanism of homocysteine toxicity leading to COX deficiency and apoptosis in primary neurons, PC12 and SHSY-5Y cells. *Neurobiol Dis*. 2006 Sep;23(3):725-30. Epub 2006 Jul 28. PubMed PMID: 16876425.

Linnebank M, Kemp S, Wanders RJ, Kleijer WJ, van der Sterre ML, Gärtner J, Fliessbach K, Semmler A, Sokolowski P, Köhler W, Schlegel U, Schmidt S, Klockgether T, Wüllner U. Methionine metabolism and phenotypic variability in X-linked adrenoleukodystrophy. *Neurology*. 2006 Feb 14;66(3):442-3. PubMed PMID: 16476952.

Linnebank M, Lagler F, Muntau AC, Röschinger W, Olgemöller B, Fowler B, Koch HG. Methionine adenosyltransferase (MAT) I/III deficiency with concurrent hyperhomocysteinaemia: two novel cases. *J Inherit Metab Dis*. 2005;28(6):1167-8. PubMed PMID: 16435220.

Wüllner U, Kölsch H, **Linnebank M**. Methylenetetrahydrofolate reductase in Parkinson's disease. *Ann Neurol*. 2005 Dec;58(6):972-3. PubMed PMID: 16315277.

Palmedo H, Urbach H, Bender H, Schlegel U, Schmidt-Wolf IG, Matthies A, **Linnebank M**, Joe A, Bucerius J, Biersack HJ, Pels H. FDG-PET in immunocompetent patients with primary central nervous system lymphoma: correlation with MRI and clinical follow-up. *Eur J Nucl Med Mol Imaging*. 2006 Feb;33(2):164-8. Epub 2005 Oct 12. PubMed PMID: 16220304.

Linnebank M, Fließbach K, Kölsch H, Rietschel M, Wüllner U. The methionine synthase polymorphism c.2756A>G (D919G) is relevant for disease-free longevity. *Int J Mol Med*. 2005 Oct;16(4):759-61. PubMed PMID: 16142417.

Linnebank M, Montenarh M, Kölsch H, Linnebank A, Schnez K, Schweichel D, Pohl C, Urbach H, Heun R, Harbrecht U, Klockgether T, Wüllner U. Common genetic variants of homocysteine metabolism in ischemic stroke: a case-control study. *Eur J Neurol*. 2005 Aug;12(8):614-8. PubMed PMID: 16053469.

Fließbach K, Helmstaedter C, Urbach H, Althaus A, Pels H, **Linnebank M**, Juergens A, Glasmacher A, Schmidt-Wolf IG, Klockgether T, Schlegel U. Neuropsychological outcome after chemotherapy for primary CNS lymphoma: a prospective study. *Neurology*. 2005 Apr 12;64(7):1184-8. PubMed PMID: 15824344.

Linnebank M, Pels H, Kleczar N, Farmand S, Fließbach K, Urbach H, Orlopp K, Klockgether T, Schmidt-Wolf IG, Schlegel U. MTX-induced white matter changes are associated with polymorphisms of methionine metabolism. *Neurology*. 2005 Mar 8;64(5):912-3. PubMed PMID: 15753437.

Kölsch H, **Linnebank M**, Lütjohann D, Jessen F, Wüllner U, Harbrecht U, Thelen KM, Kreis M, Hentschel F, Schulz A, von Bergmann K, Maier W, Heun R. Polymorphisms in glutathione S-transferase omega-1 and AD, vascular dementia, and stroke. *Neurology*. 2004 Dec 28;63(12):2255-60. PubMed PMID: 15623683.

Linnebank M, Linnebank A, Jeub M, Klockgether T, Wüllner U, Kölsch H, Heun R, Koch HG, Suormala T, Fowler B. Lack of genetic dispositions to hyperhomocysteinemia in Alzheimer disease. *Am J Med Genet A*. 2004 Nov 15;131(1):101-2. PubMed PMID: 15389705.

Linnebank M, Janosik M, Kozich V, Pronicka E, Kubalska J, Sokolova J, Linnebank A, Schmidt E, Leyendecker C, Klockgether T, Kraus JP, Koch HG. The cystathionine beta-synthase (CBS) mutation c.1224-2A>C in Central Europe: Vitamin B6 nonresponsiveness and a common ancestral haplotype. *Hum Mutat*. 2004 Oct;24(4):352-3. PubMed PMID: 15365998.

Orendàè M, Pronicka E, Kubalska J, Janosik M, Sokolová J, **Linnebank M**, Koch HG, Kozich V. Identification and functional analysis of two novel mutations in the CBS gene in Polish patients with homocystinuria. *Hum Mutat.* 2004 Jun;23(6):631. PubMed PMID: 15146473.

Linnebank M, Schmidt S, Kölsch H, Linnebank A, Heun R, Schmidt-Wolf IG, Glasmacher A, Fliessbach K, Klockgether T, Schlegel U, Pels H. The methionine synthase polymorphism D919G alters susceptibility to primary central nervous system lymphoma. *Br J Cancer.* 2004 May 17;90(10):1969-71. PubMed PMID: 15138479; PubMed Central PMCID: PMC2409477.

Gehrmann J, Sohlbach K, **Linnebank M**, Böhles HJ, Buderus S, Kehl HG, Vogt J, Harms E, Marquardt T. Cardiomyopathy in congenital disorders of glycosylation. *Cardiol Young.* 2003 Aug;13(4):345-51. Review. PubMed PMID: 14694955.

Linnebank M, Kesper K, Jeub M, Urbach H, Wüllner U, Klockgether T, Schmidt S. Hereditary elevation of angiotensin converting enzyme suggesting neurosarcoidosis. *Neurology.* 2003 Dec 23;61(12):1819-20. PubMed PMID: 14694062.

Linnebank M, Junker R, Nabavi DG, Linnebank A, Koch HG. Isolated thrombosis due to the cystathionine beta-synthase mutation c.833T>C (1278T). *J Inher Metab Dis.* 2003;26(5):509-11. PubMed PMID: 14518832.

Linnebank M, Homberger A, Nowak-Göttl U, Koch HG. A common haplotype for the 677T thermolabile variant of the 5,10-methylenetetrahydrofolate reductase gene in thrombophilic patients and controls. *Hum Mutat.* 2002 Dec;20(6):478. PubMed PMID: 12442281.

Kleijer WJ, Garritsen VH, **Linnebank M**, Mooyer P, Huijmans JG, Mustonen A, Simola KO, Arslan-Kirchner M, Battini R, Briones P, Cardo E, Mandel H, Tschiedel E, Wanders RJ, Koch HG. Clinical, enzymatic, and molecular genetic characterization of a biochemical variant type of argininosuccinic aciduria: prenatal and postnatal diagnosis in five unrelated families. *J Inher Metab Dis.* 2002 Sep;25(5):399-410. PubMed PMID: 12408190.

Linnebank M, Tschiedel E, Häberle J, Linnebank A, Willenbring H, Kleijer WJ, Koch HG. Argininosuccinate lyase (ASL) deficiency: mutation analysis in 27 patients and a completed structure of the human ASL gene. *Hum Genet.* 2002 Oct;111(4-5):350-9. Epub 2002 Aug 14. PubMed PMID: 12384776.

Häberle J, Pauli S, **Linnebank M**, Kleijer WJ, Bakker HD, Wanders RJ, Harms E, Koch HG. Structure of the human argininosuccinate synthetase gene and an improved system for molecular diagnostics in patients with classical and mild citrullinemia. *Hum Genet.* 2002 Apr;110(4):327-33. Epub 2002 Mar 1. PubMed PMID: 11941481.

Linnebank M, Homberger A, Junker R, Nowak-Goettl U, Harms E, Koch HG. High prevalence of the 1278T mutation of the human cystathionine beta-synthase detected by a novel screening application. *Thromb Haemost.* 2001 Jun;85(6):986-8. PubMed PMID: 11434706.

Rapp B, Häberle J, **Linnebank M**, Wermuth B, Marquardt T, Harms E, Koch HG. Genetic analysis of carbamoylphosphate synthetase I and ornithine transcarbamylase deficiency using fibroblasts. *Eur J Pediatr*. 2001 May;160(5):283-7. PubMed PMID: 11388595.

Linnebank M, Homberger A, Kraus JP, Harms E, Kozich V, Koch HG. Haplotyping of wild type and I278T alleles of the human cystathionine beta-synthase gene based on a cluster of novel SNPs in IVS12. *Hum Mutat*. 2001 Apr;17(4):350-1. PubMed PMID: 11295835.

Homberger A, **Linnebank M**, Winter C, Willenbring H, Marquardt T, Harms E, Koch HG. Genomic structure and transcript variants of the human methylenetetrahydrofolate reductase gene. *Eur J Hum Genet*. 2000 Sep;8(9):725-9. PubMed PMID: 10980581.

Linnebank M, Homberger A, Rapp B, Winter C, Marquardt T, Harms E, Koch HG. Two novel mutations (E86A, R113W) in argininosuccinate lyase deficiency and evidence for highly variable splicing of the human argininosuccinate lyase gene. *J Inher Metab Dis*. 2000 Jun;23(4):308-12. PubMed PMID: 10896281.

Linnebank M, Homberger A, Nowak-Göttl U, Marquardt T, Harms E, Koch HG. Linkage disequilibrium of the common mutations 677C > T and 1298A > C of the human methylenetetrahydrofolate reductase gene as proven by the novel polymorphisms 129C > T, 1068C > T. *Eur J Pediatr*. 2000 Jun;159(6):472-3. PubMed PMID: 10867857.

Linnebank M, Homberger A, Koch HG, Bova I, Sylantiev C, Bornstein NM, Chapman J, Korczyn AD. Frequent polymorphism of the human methylenetetrahydrofolate reductase. *Stroke*. 2000 Apr;31(4):990. PubMed PMID: 10754661.

Koch HG, Nabel P, Junker R, Auberger K, Schobess R, Homberger A, Linnebank M, Nowak-Göttl U. The 677T genotype of the common MTHFR thermolabile variant and fasting homocysteine in childhood venous thrombosis. *Eur J Pediatr*. 1999 Dec;158 Suppl 3:S113-6. PubMed PMID: 10650848.

Körner C, **Linnebank M**, Koch HG, Harms E, von Figura K, Marquardt T. Decreased availability of GDP-L-fucose in a patient with LAD II with normal GDP-D-mannose dehydratase and FX protein activities. *J Leukoc Biol*. 1999 Jul;66(1):95-8. PubMed PMID: 10410995.

Filli L, Zörner B, Killeen T, **Linnebank M**. Author response: Monitoring long-term efficacy of fampridine in gait-impaired patients with multiple sclerosis. *Neurology*. 2017 Sep 12;89(11):1200. doi: 10.1212/WNL.0000000000004379. Epub 2017 Sep 11. No abstract available. PMID: 28894033